

**Oregon Tualatin Valley
Amateur Radio Club**

The OSCILLATOR

MARCH 2009

Issue 2009:03
Our 31st Year

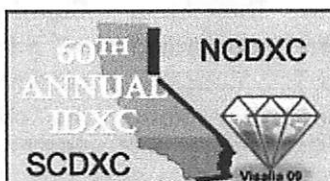
The Oregon Tualatin Valley Amateur Radio Club is a special service club related to ARRL: The National Association for Amateur Radio. We seek to advance the Amateur Radio Service through:

- ⇒ Education and Training of new and licensed amateurs
- ⇒ Public Service and Emergency communication
- ⇒ Hobby nets, contests and meetings
- ⇒ Social events

Membership is available to anyone. An amateur radio license is not required.

INTERNATIONAL DX CONVENTION

The 60th Annual International DX Convention will take place April 17 - 19, 2009 at the Holiday Inn Hotel & Conference Center in Visalia, California. This ARRL sanctioned convention is sponsored this year by the Northern California DX Club. It is expected to draw visitors from around the World and will feature programs from recent DX-Peditions and contest operations. Features of this year's convention include:



- Contest Academy by the Northern California Contest Club.
- Radio Arcala Project by OH2BH and OH8NC.
- Banquet Speaker: J. Scott Redd K0DQ, Admiral, U.S. Navy (ret).
- Breakfast Program: The Desecheo K5D DX-Pedition.
- DX, Top Band and Contest Forums
- Technical Talks
- Door Prizes
- Saturday Barbecue Lunch and Banquet,
- Sunday Morning "Power" Breakfast
- Vendors Exhibits
- QSL Card Checking

Current information and registration forms are available on the Convention web page, which can be found at www.dxconvention.org.

CLUB MEETING

Wednesday,
March 11th

Our meeting will be held at The Peppermill Restaurant, 17455 SW Farmington Road in Beaverton on Wednesday, March 11th. Come at 6:00 PM and order off the menu. Our Club Meeting begins at 7:00 PM.

Ward Cunningham K9OX will speak on the theme: "The Roots of Wikipedia in Amateur Radio." See information on our speaker on Page 2.

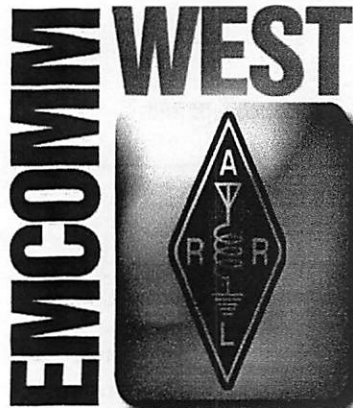
Guests are always welcome and an amateur radio license is not required.

Check out our web site: www.otvarc.org for more information.

SCHOOL CLUB ROUNDUP

Held twice each year, the *School Club Roundup* (SCR) is sponsored by the Council for the Advancement of Amateur Radio in the New York City Schools (CAAR/NYCS), the ARRL and its Hudson Division Education Task Force to foster contacts with and among school radio clubs. The SCR is a great way to get young operators on the air. Very often a new operator will be intimidated by the fear of not knowing what to say to the stranger on the other side of the radio. The exchange information helps to overcome this fear in a low pressure contest format. Operators are encouraged to take some time to chat beyond the contest exchange.

This year, Phil Spooner KD7CJV, invited OTVARC to join in the Roundup in his 5th Grade Classroom at Cherry Park Elementary School in SE Portland. Trustee of the David Douglas Elementary Amateur Radio Club KE7FWY Phil uses amateur radio in his classroom. During the February 9 -13 Roundup, Phil had a station setup running PSK31. Jim Schaeffer KB7ADH, who's granddaughter Cassie is in the classroom, and Everett Curry W6ABM volunteered to work with the 29 members of the class. The next Roundup will be held October 19 - 23. Consider becoming a part of this rewarding event.

PACIFICON 2009, Bob Vallio W6RGG

On February 15, we learned that the Mt. Diablo Amateur Radio Club had decided not to sponsor the Pacificon Convention this year. They have done an outstanding job of running Pacificon every year since 1992, and this decision was made by

the Pacificon Committee, based on the current economic downturn, and unsuccessful negotiations with the host hotel.

Realizing the difficulty of finding a replacement for the Mount Diablo Amateur Radio Club, that with an experienced committee spends nearly a year planning this successful event, we contacted EMMCOMWEST, the second largest Amateur Radio Convention in the Pacific Division. They very kindly accepted, knowing the marriage of the two events would require an expansion of program matter, and the addition of Friday presentations. we are truly grateful to the entire EMMCOMWEST team for their decision.

The Mt. Diablo Amateur Radio Club has been very supportive of this effort, and is making their speaker, vendor, and organizational information available to the EMMCOMWEST team. The keynote speaker will be Steve Ewald WV1X, Field Organization Supervisor from ARRL; and the banquet speaker will be Riley Hollingsworth K4ZDH, who was in charge of Amateur Radio rules enforcement at the FCC before his retirement last year.

We hope many of you will be able to attend this year's Pacificon May 1-3, 2009 at the Circus Circus in Reno, Nevada. More information is available at pacificon.org.

OTVARC ADDRESS:
880 NE 25th Ave Ste 2-160
Hillsboro OR 97124-6258
otvarc@gmail.com

Ward Cunningham K9OX

Ward Cunningham K9OX is the American computer programmer who developed the first wiki. A pioneer in design patterns and Extreme Programming, Cunningham started programming the software WikiWikiWeb in 1994 and installed it on the website of his software consultancy, Cunningham & Cunningham on March 25, 1995 as an add-on to the Portland Pattern Repository. He currently lives in Beaverton, Oregon and has been the chief technology officer for AboutUs since 2007.

Cunningham is well-known for a few widely disseminated ideas which he originated and developed. The most famous among these are the wiki (named after WikiWikiWeb) and many ideas in the field of software patterns.

In a 2006 interview with internetnews.com Cunningham admitted that he had thought about patenting the Wiki concept when he first created it. His current interest is in tracking the number and location of wiki page edits as a sociological experiment and may even consider the degradation of a wiki page as part of its process to stability. "There are those who give and those who take. You can tell by reading what they write."

Ward Cunningham K9OX will be the speaker for our March 11th meeting. He will speak to the theme: "The Roots of Wikipedia in Amateur Radio."

LUNCH BUNCH

Join us for LUNCH BUNCH
 Saturday, March 28th
 1:30 pm

Wu's Kitchen
 12180 SW Scholls Ferry Rd
 Tigard, Oregon
 Next to Lamb's Thriftway

Information?
 Linda KC7YTD
 503.246.8879

HATS ADDED TO CLUB ID GEAR

Pat Roberson W7PAT and your Board of Directors announce the availability of "Ball Cap" style hats with the club "Oregon" Logo embroidered on the front. Hats are \$10.00 each. We need twelve orders before ordering. You may be added to the list by emailing Pat at w7pat@arrl.net. We hope to have the hats available prior to Sea-Pac.

OTVARC Club "Coaches" Jackets are available as well. The "Oregon" Logo is embroidered on the back with an option for name/call on the front. Manufactured by Dunbrooke, these come in small through 3XL sizes in the Maroon color. 4XL and 5XL sizes in Black or Navy Blue.

Jacket Prices: \$45.00 each. Add \$10.00 for name and call. An additional charge for 4XL and 5XL is \$10.00. We need twelve commitments to place our order.

When ordering, send:

Name, address, callsign, Size. Confirm whether you wish name/call on the front. For 4XL and 5XL, note the color. Make your check to Class Act Uniforms. Mail the check to Pat Roberson, 18230 SW Broad Oak Ct., Aloha OR 97007.

Contact Pat Roberson W7PAT at w7pat@arrl.net with questions.

Antenna Modeling Using 4NEC2X

With this article, Geoge Lottes WG7U begins a series of articles on *Antenna Modeling using 4NEC2X*.

The Numerical Electromagnetics Code (NEC-2) is a user-oriented computer-code for the analysis of the electromagnetic response of antennas and other metal structures. It is built around the numerical solution of integral equations for currents induced on the structure by sources or incident fields. This approach avoids many of the simplifying assumptions required by other solution methods and provides a highly accurate and versatile tool for electromagnetic analysis.

The code combines an integral equation for smooth surfaces with one specialized to wires to provide for convenient and accurate modeling of a wide range of structures. A model may include non-radiating networks and transmission lines connecting parts of the structure, perfect or imperfect conductors, and lumped-element loading. A structure may also be modeled over a ground plane that may be either a perfect or imperfect conductor.

The excitation may be either voltage sources on the structure or an incident plane wave of linear or elliptic polarization. The output may include induced currents and charges, near electric or magnetic fields, and radiated fields. Hence, the program is suited to either antenna analysis or scattering and EMP studies. NEC-2, and its predecessors, have been used successfully to model a wide range of antennas with a range of complex environments such as ships, airplanes and most recently a quad near my metal barn.

The code NEC-2 is next to the latest in a series of electromagnetic codes, each of which has built upon a previous one. NEC-4 is the latest code released, but because of national security concerns requires a processing payment of \$300.00 and verification of citizenship. NEC-2 is free and is only limited when attempting to analyze wires near ground such as a ground plane antenna. Anyone interested in a further history of NEC development will find a great deal of information through an internet search.

See 4NEC2X, Page 5

WORLDWIDE DISTRIBUTION



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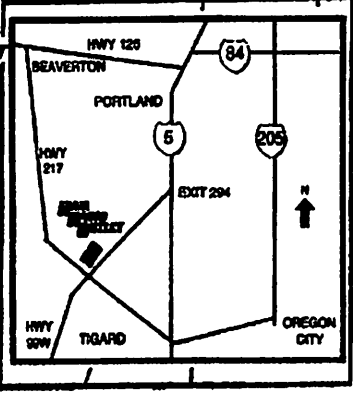
Leon, W7AD, Manager
and
Dan, N7UDE

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HAMFESTS & CONVENTIONS**7 March 2009****Electronics Show****Mike and Key ARC****West. Washington Fairgrounds****Pavilion Exhibition Hall****Puyallup, Washington****Michael Dinkelman N7WA****22222 148th Avenue SE****Kent, WA 98042****253-631-3756****mwdink@eskimo.com****www.mikeandkey.org/flea.htm****21 March 2009****MicroHAMS Digital Conf****MicroHAMS Radio Club****Microsoft Campus****Redmond, WA****Philip Moscinski, N2EU****PO Box 6925****Bellevue, WA 98008-0925****Phone: 425-705-1000****Fax: 425-703-8282****Email: pmoscinski@gmail.com****http://www.microhams.com****5 - 7 June 2009****SEA-PAC****NW DIV. ARRL CONVENTION****Seaside Convention Center****Seaside Oregon****www.seapac.org****[Register Online NOW]****Happy March Birthday**

1 KE7WKM	Lynn Burrell	17 W7PAT	Patrick Roberson
1 WA7GFS	Richard Cross	18 KE7UKD	John Mewha
2 K7JDF	J.D. Fort	19 W17O	Will Hobbs
2 N8SQT	Bob Recny	20 WN7O	K. Robert Crocker Jr.
6 KA7KBH	Gene Buell	21 KC7ZZX	Joe Mohr
7 W6ABM	Everett Curry	22 W7SIC	Al Berg
10 K7GY	Geno Gray	24 KB7YVN	Ray Casey Jr
10 KZ7T	Randy Stimson	24 N7THK	Steve Mathews
12 K7VDQ	Ray Deeth	24 KF7QS	Ira Rubin
12 W7FBP	Dale LeBarron	28 W7ACD	Arch Doty
14 W7AAJ	Jack Brutcher	31 W7TUT	Randy Hayden
16 K2NCC	Frank Ravenswood		

Have we missed your birthday? Likely we do not have your correct date in our database. Send updates and corrections to otvarc@gmail.com

WAS WATCH

We have forty-eight verified contacts. We need two states to complete our Worked All States for W7OTV.

Our needed states are Arkansas and Delaware.

Your business advertising in *THE OSCILLATOR* is seen each month by more than 200 members read *THE OSCILLATOR*.

To include your "Business Card" ad (\$48.00 annually) or "Display" - HRO size ad (\$60.00 annually), contact **Maureen O'Rourke** at 503.591.9641. There is currently limited space available.

**J. Steven Sanders****Certified General Appraiser****Sanders Appraisal, PC****503-320-4100****jss10@verizon.net****Orencia Station, Hillsboro, OR 97124****Fax: 503-547-8200**

St. Patrick says:

"My lips feel blessed & protected from March winds, when I'm using my favorite:

OREGON TRAIL LIP BALM

Created by: Maureen O'Rourke KA7LAP
mcorourke@netzero.net

Available at: Oregon Mountain Community Store on Sandy Blvd.

DC POWER**Anderson Connectors & More****Wes Allen, K7WWG****665 SW 167th Ave • 503-531-4081****Beaverton, OR 97006****e-mail: sales@dcpower.com****Web: www.dcpwr.com****Karl Anderson NM 7N**
Broker**DIRECT: 503-608-5206****CELL: 503-863-4894****FAX: 503-590-7606**

karlanderson@meadowsgroup.com
www.meadowsgroup.com

12655 SW North Dakota Street
 Tigard, Oregon 97223

OTVARC COMING EVENTS

May 8 31st Anniversary Banquet

Make plans to attend our Anniversary Banquet
At Cedar Hills Baptist Church. We'll honor the
Achievements of the past year and have
An evening of fun!

Approximate Cost: \$20 per person

June 5 - 7 SEA-PAC Convention

Details at www.seapac.org

June 26 - 28 Field Day at Stub Stewart

We're planning a full effort again
This year at Stub Stewart State Park.
JD Fort will lead the charge. Let JD know
What you can do to support our effort.

August 12 Annual Ice Cream Social

This has become a summer highlight.
Robert Crocker will be leading this event.

December 9 Holiday Social

Our celebration of the holidays caps our year.
Plan to be a part.

CELL BILLS IN OREGON LEGISLATURE

Oregon House of Representatives

It's time for action on the proposed Cell Phone Bills in the Oregon Legislature. The primary bill, HB 2377-2 is being coordinated by Rep. Carolyn Tomei (D-Milwaukie). She told hams appearing at a February Hearing on the Bill by the House Transportation Committee that she is resisting exclusion of amateur radio operators because she wants the bill to be a "one-page simple bill." Even excluding amateur radio operators during drills was not acceptable to her.

Contact your own representative. Check the February issue of THE OSCILLATOR for help on your letter (email otvarc@gmail.com for a new copy if you've recycled yours). Letters are very effective. You can find your legislator at: <http://www.leg.state.or.us/house/>

OTVARC CONTEST TEAM

The OTVARC Contest Team has been active in several contests this year. Propagation continues to be the major concern for all events. As the March issue goes to print, the Team is planning for participation in the NAQP RTTY CONTEST the last weekend of February.

Contesting is a great way to increase your operating skills. The Contest Team maintains the OTVARC Contesting page at: www.otvarc.org/ContestGroup.htm

If you'd like to receive email about planned operations, drop an email note to Ron KD7VIK and ask to be included (kd7vik@arrl.net).

The Contest Team is one of many special interest groups with OTVARC.

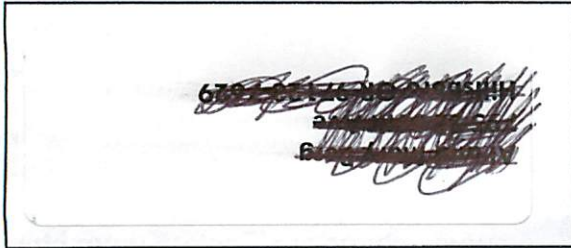
4NEC2X, from Page 3

The NEC-2 program emerged in the early 1980s' and ran on the equivalent of an IBM 360 and to this day requires something similar to card deck to run the bare program. I began using NEC-2 in the early 1990s' on a WIN95 machine running in a DOS window with output including crude graphics to dot matrix printer. Ok, after a long search I found this free GUI wrapper to NEC-2 that's better than sliced bread. The program is 4NEC2 written by Arie Voors and can be found at: <http://home.ict.nl/~arivoors/> or do a search on 4NEC2 and the site will usually be the first listing. If that fails send me an email at glottis@gmail.com and I will send you a link to the program page.

The home page under Downloads (lower right) shows two programs with an *. Download and install the first program titled Latest 4nec2 default version (X.X.X). Then download and install 4nec2 3D extension (X.X.X). Then, download and install its' HF propagation prediction and Gnuplot 2D/3D plotting.

**DO WE HAVE YOUR CURRENT
ADDRESS, PHONE, AND EMAIL?**

**CLUB MEETING
MARCH 11TH**



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223.94 MHz (Goat Min)
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Editor: Everett W6ABM w6abm@arrl.net



OREGON TUALATIN VALLEY
AMATEUR RADIO CLUB
880 NE 25th Ave. Ste 2-160
Hillsboro OR 97124-6258

Supplies Needed When The Power Goes Out - Jeff Holwege AB7DN

Water	Lantern (Battery)	Easy Cook Foods
Water Purification	Flashlight (LED)	Torch Lights
Hot Water (Pump Pot)	Head Lamp	Spare Batteries - D/C/AA/AAA
No Cook Foods	Generator	Fuel for Generator
Butane Stove	Butane Fuel	Light Sticks
Paper Plates	Paper Cups	Auto Power Failure Lights
Paper Bowls	Blankets (Extra Warm Fleece)	Hand Warmers
Plastic Ware	WARM CLOTHING	Rain Gear (Stay Dry)



June 5, 6, 7, 2009

"The Northwest's Largest Ham Convention"

Seaside Convention Center